

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6132768

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the ASSIGNEE NAME previously recorded on Reel 052553 Frame 0883. Assignor(s) hereby confirms the THE ASSIGNEE NAME SHOULD BE "EMC CORPORATION".
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SAMEER TIWARI	03/29/2013
MILIND ARUN BHANDARKAR	03/29/2013
BHOOSHAN DEEPAK MOGAL	03/29/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	EMC CORPORATION
<b>Street Address:</b>	176 SOUTH STREET
<b>City:</b>	HOPKINTON
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	01748
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16865164
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(408)973-2595
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	4089732585
<b>Email:</b>	enguyen@ip-patent.com
<b>Correspondent Name:</b>	VAN PELT, YI & JAMES LLP AND EMC IP HOLDING COMPA
<b>Address Line 1:</b>	10050 N. FOOTHILL BLVD.
<b>Address Line 2:</b>	SUITE 200
<b>Address Line 4:</b>	CUPERTINO, CALIFORNIA 95014
<b>ATTORNEY DOCKET NUMBER:</b>	EMCCP474C2
<b>NAME OF SUBMITTER:</b>	DANIEL M SCHNEIDER
<b>SIGNATURE:</b>	/Daniel M. Schneider/
<b>DATE SIGNED:</b>	06/02/2020
<b>Total Attachments: 7</b>	
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<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SAMEER TIWARI	03/29/2013
MILIND ARUN BHANDARKAR	03/29/2013
BHOOSHAN DEEPAK MOGAL	03/29/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	EMC IP HOLDING COMPANY LLC
<b>Street Address:</b>	176 SOUTH STREET
<b>City:</b>	HOPKINTON
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	01748
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16865164
<b>CORRESPONDENCE DATA</b>	
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<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Correspondent Name:</b>	VAN PELT, YI & JAMES LLP AND EMC IP HOLDING COMPA
<b>Address Line 1:</b>	10050 N. FOOTHILL BLVD.
<b>Address Line 2:</b>	SUITE 200
<b>Address Line 4:</b>	CUPERTINO, CALIFORNIA 95014
<b>ATTORNEY DOCKET NUMBER:</b>	EMCCP474C2
<b>NAME OF SUBMITTER:</b>	DANIEL M. SCHNEIDER
<b>Signature:</b>	/Daniel M. Schneider/
<b>Date:</b>	05/01/2020
<b>Total Attachments: 5</b>	

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source=EMCCP474C2 Executed Assignment#page5.tif

**RECEIPT INFORMATION**

**EPAS ID:** PAT6088896  
**Receipt Date:** 05/01/2020

ASSIGNMENT

WHEREAS, we, Sameer Tiwari, Milind Arun Bhandarkar and Bhooshan Deepak Mogal have invented an invention comprising and/or embodying certain improvements or discoveries or both as described in an application for Letters Patent of the United States entitled TIERING WITH PLUGGABLE STORAGE SYSTEM FOR PARALLEL QUERY ENGINES, the specification of which:

- ☐ is being executed on even date herewith and is about to be filed in the United States Patent Office;
- ☒ was filed on March 15, 2013 as U.S. Application No. 13/842,955;
- ☐ was patented under U.S. Patent No. \_\_\_\_\_ on \_\_\_\_\_.

WHEREAS, EMC Corporation (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts and having a usual place of business at 176 South Street, Hopkinton, Massachusetts 01748 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey to ASSIGNEE all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including

the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals as set forth below:

Date: 3/29/2013

  
Inventor's Signature

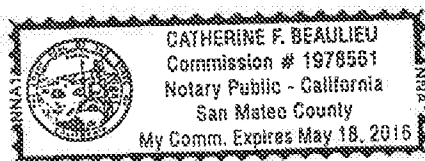
Print full name of first inventor: Sameer Tiwari  
Residence: Fremont, CA  
Citizenship: United States of America  
Mailing Address: 46205 Sentinel Drive  
Fremont, CA 94539

STATE OF CALIFORNIA  
COUNTY OF SAN MATEO

On this 29th day of March, 2013, before me appeared Sameer Tiwari who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Catherine F. Beaulieu  
Notary Public

Print Name: CATHERINE F. BEAULIEU  
My Commission expires 5/18/16

Date: 3/29/2013

Milind Arun Bhandarkar  
Inventor's Signature

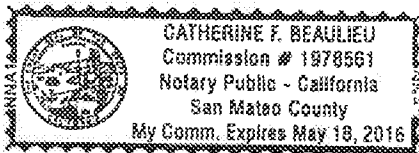
Print full name of second inventor: Milind Arun Bhandarkar  
Residence: San Jose, CA  
Citizenship: United States of America  
Mailing Address: 1109 White Cliff Drive  
San Jose, CA 95129

STATE OF California  
COUNTY OF San Mateo

On this 29th day of March, 2013, before me appeared MILIND A BHANDARKAR who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Catherine F. Beaulieu  
Notary Public  
Print Name: CATHERINE F. BEAULIEU  
My Commission expires 5/18/16

Date: 03/29/2013

Bhooshan Mogal

Inventor's Signature

Print full name of third inventor:

Bhooshan Deepak Mogal

Residence:

Mountain View, CA

Citizenship:

India

Mailing Address:

877 Heatherstone Way, #507  
Mountain View, CA 94040

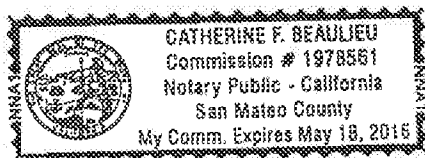
STATE OF  
COUNTY OF

California  
San Mateo

On this 29<sup>th</sup> day of MARCH, 2013, before me appeared BHOOSHAN D MOGAL who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Catherine F. Beaulieu

Notary Public

Print Name: CATHERINE F. BEAULIEU

My Commission expires 5/18/16